

EXIDY Computer Systems



● EXIDY Sorcerer™ Computer

● EXIDY S-100 Expansion Unit

● EXIDY 16K Memory Expansion Kit

● EXIDY I/O Expansion Kit

● EXIDY ROM PACs™

● EXIDY Serial Cassette Data Cable (DP4005)

● EXIDY Video/Disk

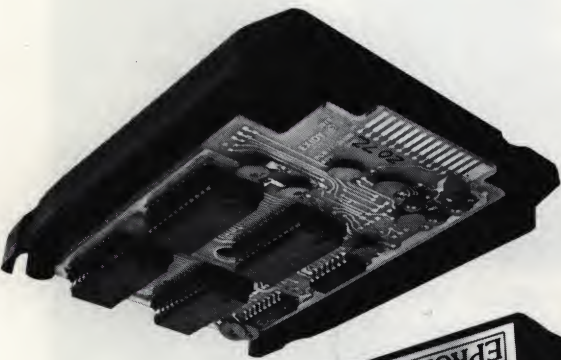
● EXIDY Parallel Data Cable (DP4003)



The EXIDY Sorcerer™ Computer uses a Z80 microprocessor; EXIDY's optional plug-in ROM PAC™ software makes the system powerful and flexible.

The Sorcerer comes with 8K, 16K, 32K or 48K of internal RAM; to add memory, use the 16K Memory Expansion Kit. In every case the 4K ROM-resident operating system has a built-in parallel printer driver. Output connectors include a 50-pin interface for S-100 expansion, a 25-pin parallel interface, and a 25-pin serial interface (300 or 1200 baud, software selectable). The serial interface will operate one or two cassette recorders. Graphic resolution is 240x512—30 lines of 64 characters (1920 characters total). Each character comprises an 8x8 dot matrix. The Sorcerer's character generator contains the full ASCII set (both upper and lower case) plus standard graphic symbols. Users may define up to 128 characters of their own; the Sorcerer will accept any character definable within an 8x8 dot matrix. The Sorcerer has composite video. A video cable, two cassette cables, and an instruction manual are included. Power input is factory set, 110 VAC 60 Hz or 220 VAC 50 Hz.

The EXIDY 16K Memory Expansion Kit contains eight 16K RAMs—enough to boost the computer's internal memory from 8K to 16K, 16K to 32K, or 32K to 48K. To increase memory from 8K to 32K or from 16K to 48K, use two kits; to increase from 8K to 48K, three kits. Early production Sorcerers will accept no more than 32K of internal RAM. Instructions are included with each kit.



EXIDY ROM PACS™ are plug-in software cartridges for EXIDY's Sorcerer computer. When inserted, the ROM PAC becomes part of the computer's memory, separate from internal RAM; this leaves the entire RAM available to the user. EXIDY produces the following ROM PACs; each comes with an instruction manual.

- **The Standard BASIC PAC™** contains 8K Microsoft BASIC. Standard BASIC allows long names so you can give descriptive names to variables, arrays, and user-defined functions. (Name lengths are limited only by the length of a program line; however, Standard BASIC looks only at the first two characters of a name.) Numeric and string arrays may have up to 255 dimensions. The BASIC PAC includes all ANSI Standard BASIC commands, plus these added commands—CSAVE, CLOAD, PEEK, POKE, INP, OUT, WAIT. A special USR(X) function allows Standard BASIC programs to call machine language subroutines.
- **The Development PAC™** is a Z80 software development system for EXIDY's Sorcerer computer. This ROM PAC is for users who wish to write extensive Assembly Language programs. Included are a relocating linking Z80 Assembler, a relocating linker, a line Editor, special Sorcerer I/O routines, and DDT80, an operating system/debugger. The Development PAC is compatible with the CP/M Disk Operating System.
- **The Word Processor PAC™** is a text editing and formatting system for business or home. The system has automatic text wrap-around as well as search and replace commands. One-key commands include end-to-end cursor line SCAN, INDENT, TAB, soft HYPHEN (for splitting syllables at the end of a line), and four-direction cursor control. Output formatting includes dynamic print control, indentation, right justification, line width and line-to-line spacing, proportional letterspacing, and boldface printing. Powerful Macro programming capabilities are included for performing such useful tasks as mail merge letter typing, multiple column printing, and automatic multiple forms entry.

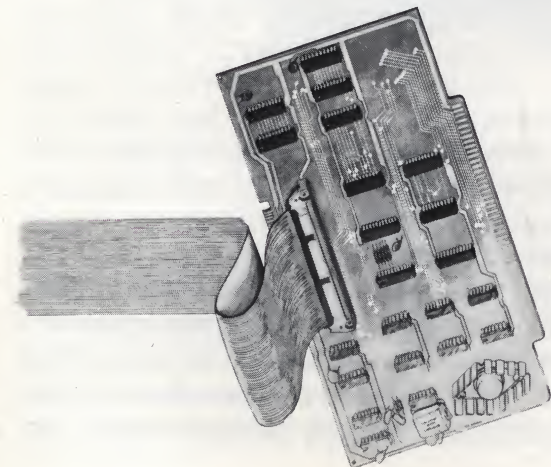
- **The EPROM PAC™** is for the user who wants his own software in a ROM PAC cartridge; it has sockets for four EPROMs with a capacity of up to 16K. The PAC's PC board can be jumpered to accept many different ROM or EPROM chips, including the 2708, 2716, 2732, and 2764. Put your own software onto the EPROMs to create a custom ROM PAC.



The EXIDY Video/Disk is a compact single unit styled to match the Sorcerer. It includes a twelve-inch video monitor with P31 phosphor, and a dual disk drive with built-in controller card. The Video/Disk plugs directly into the Sorcerer computer's 50-pin expansion connector; an S-100 expansion unit is not required to operate the disks. The Video/Disk comes with a disk operating system, full documentation, a cable for connection to EXIDY's Sorcerer computer, and a swivel base.



The EXIDY S-100 Expansion Unit plugs into the Sorcerer computer's 50-pin expansion connector. The unit has its own 10 amp power supply and a mother board with 6 slots; it is available in 110 VAC 60 Hz or 220 VAC 50 Hz versions. These units can be daisy-chained if more slots are needed. All bus lines are fully buffered, and there is a 2 MHz clock. Any S-100 compatible PC board may be plugged into the expansion unit. These boards include music and speech synthesizers, additional memory, disk interfaces, and bit pad/analog input devices.



The EXIDY I/O Expansion Kit contains an S-100 interface card and a cable which attaches the card to the Sorcerer's 50-pin expansion connector. The interface card has the same bus controllers and buffers as the EXIDY S-100 Expansion Unit; it fits into any other S-100 mother board and allows the Sorcerer to control the bus. The interface card has a 2 MHz clock and receives power from the S-100 mother board.

The EXIDY Serial Cassette Data Cable (DP4005) allows the Sorcerer computer to use two cassette recorders and to control the recorder motors. RS232 input and output devices may be used with the serial cable. This cable plugs into the computer's 25-pin serial interface connector.

The EXIDY Parallel Data Cable (DP4003) connects the EXIDY's Sorcerer computer to any Centronics-compatible line printer. It plugs into the computer's 25-pin parallel interface connector.



Data Products Division
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The EXIDY Education System



● EXIDY Sorcerer™ Computer (32K recommended)

4K ROM-resident operating system
S-100 expansion, serial, and
parallel connectors
240x512 graphic resolution
Full ASCII character set

● EXIDY S-100 Expansion Unit

6 slots for S-100 cards
10 amp power supply
2 MHz clock

● Standard BASIC ROM PAC™

8K BASIC
Full ANSI command set
CSAVE and CLOAD cassette commands
PEEK, POKE, INP, OUT, and WAIT
USR(X) for machine language subroutines
Arrays up to 255 dimensions

● Disk Drive Unit

or

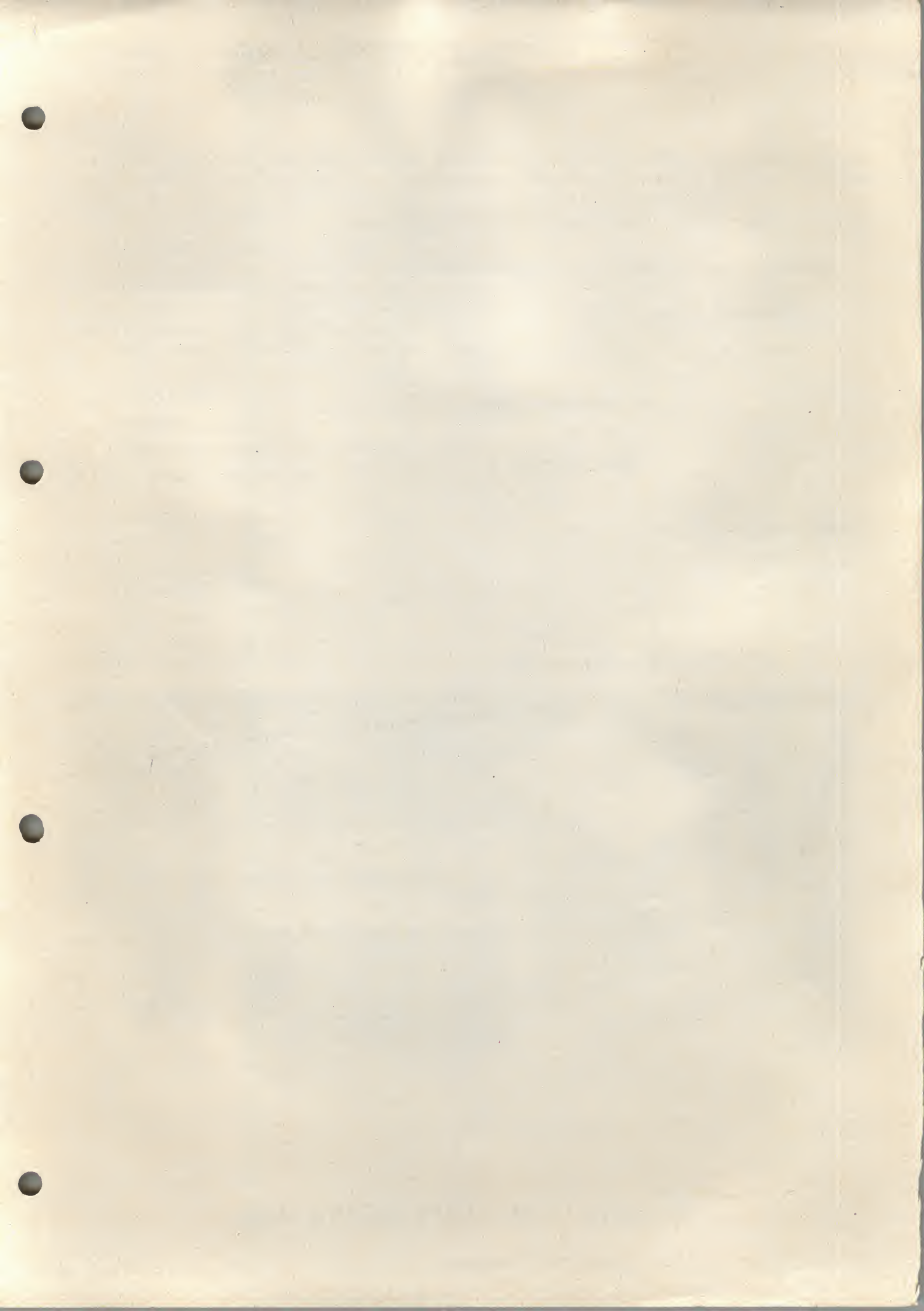
● Cassette Recorder

The EXIDY Education System is a tool for classroom instruction. The instructor or a student operates the system from the Sorcerer computer's keyboard. Program or keyboard results appear on classroom video monitors or a video projection screen. The Standard BASIC ROM PAC provides a complete higher level language simple enough for elementary programming courses, but powerful enough for more advanced courses. The ROM PAC's instruction manual contains useful examples and sample programs.

A cassette recorder gives simple inexpensive mass storage of BASIC programs and is an instructive example of a simple file management system. The disk unit is a faster storage system: it can be used for instruction on disk-based file management and disk operating systems. The S-100 expansion unit allows addition of a wide variety of S-100 devices, such as graphics systems and music or speech synthesizers.



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The EXIDY Business System



● EXIDY Sorcerer™ Computer (32K recommended)

4K ROM-resident operating system
S-100 expansion, serial, and
parallel connectors
240x512 graphic resolution
Full ASCII character set

● EXIDY Video/Disk

12" video monitor
P31 phosphor
Dual disk drive

Plugs directly into the Sorcerer computer

● Line Printer

● EXIDY Microbiz Software

MICROLEDGER MICROINV
MICROPAY MICROPEERS
MICROREC

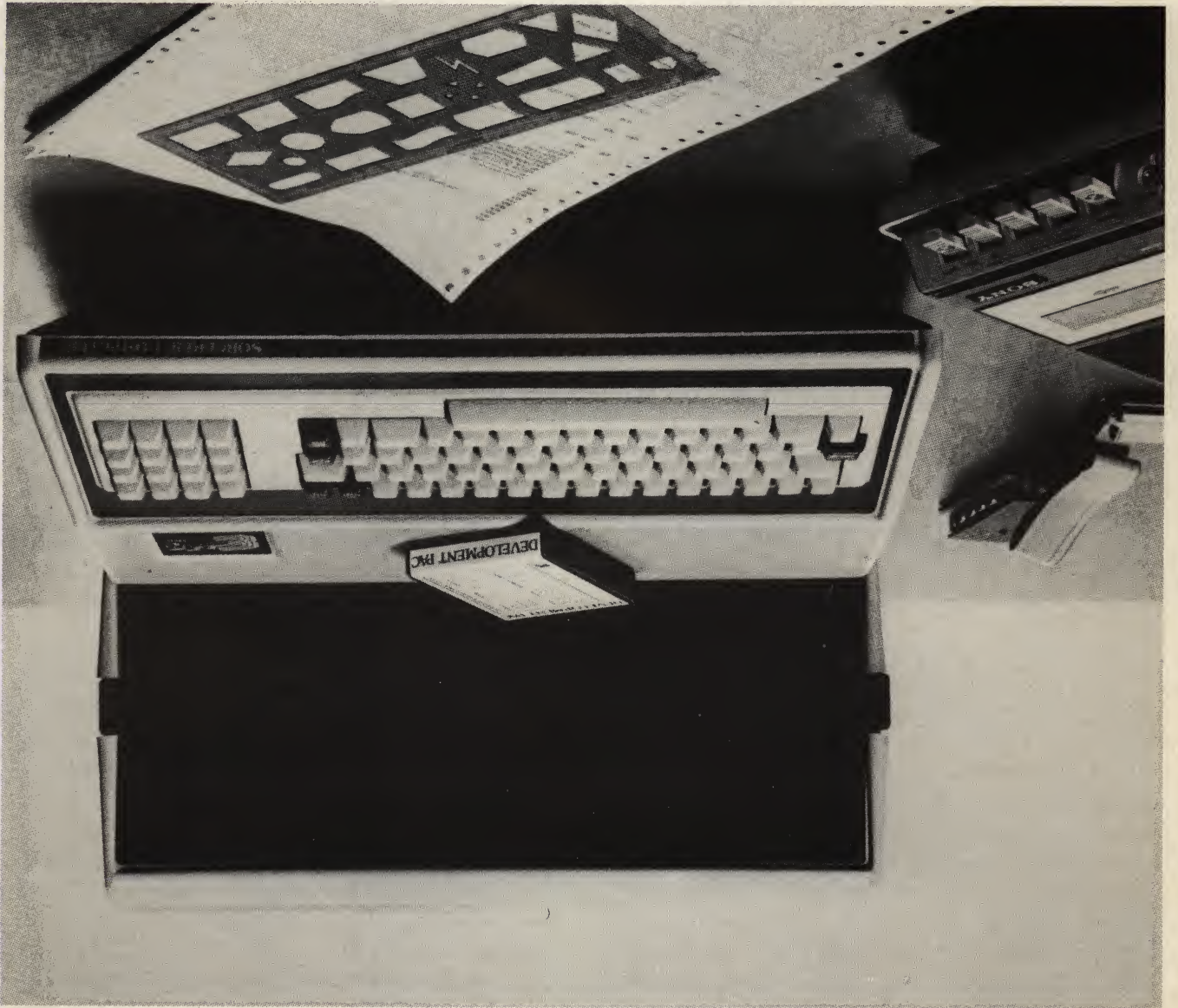
- Businesses need a data processing system which will handle payroll, bookkeeping, personnel records, inventory, accounts, and so on. The EXIDY Business System fills this need. The Business System uses EXIDY Microbiz software which is written in BASIC.
- The Microbiz software includes:
- MICROLEDGER—a dual entry general ledger accounting system that provides for multiple ledger accounts, profit and loss statements, and balance sheets, and follows standard accounting practices.
 - MICROPAY—an accounts payable system that allows multiple numbered accounts, accumulates transactions into a master file, pays accounts for a single date or a range of dates, and prints the checks.
 - MICROREC—an accounts receivable package with "conversational" programs

- MICROINV—an inventory control system contained in a series of computer programs with an inventory transactions file and a master file, yielding these reports: stock analysis report, ABC analysis (frequency of usage), job cost report/materials, economic (or optimal) order quantities.
 - MICROPEERS—two systems: a complete payroll system, which maintains the payroll transaction file and prints paychecks, and a personnel management system, which creates and updates the personnel master file.
- that help you enter the data rapidly and easily, a transaction holding file, and several reporting routines, including print invoices, aged trial balances, receivables by customer and receivables by date.



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The EXIDY Development System



● EXIDY Sorcerer™ Computer (16k recommended)

4K ROM-resident operating system
S-100 expansion, serial,
and parallel connectors
240x512 graphic resolution
Full ASCII character set

● Video Monitor

● EXIDY Development PAC™

Relocating linking Z80 Assembler
Relocating linking Loader
Line Editor
DDT80 operating system/debugger
I/O routines

● Cassette recorder

The EXIDY Development System is for users who wish to write extensive Z80 Assembly Language programs. Programs written in Assembly Language use less storage space and run faster than equivalent programs written in higher level languages such as BASIC. Assembly Language also provides closer control of the Z80 processor.

The Development PAC™ software has five parts:

- A relocating linking Z80 Assembler, which converts Assembly Language source programs to hexadecimal-coded object programs.
- A relocating linking Loader, which loads one or more object program segments into the Sorcerer's memory for execution by the Z80. If a program has several segments, the loader resolves cross-references between them.
- A text Editor, which aids in writing and editing source programs.
- DDT80, an operating system and debugger.
- Special Sorcerer I/O driver routines.

The simplest version of the Development System uses a single manually controlled cassette recorder for mass storage. Upgrade the system by adding a second recorder and the EXIDY Serial Cassette Data Cable (DP4005). Use one recorder to store the source and one to store the object or edited source, for a more flexible cassette system. Or add a disk unit—either the EXIDY Video/Disk (which does not require an S-100 expansion unit) or another disk unit with the EXIDY S-100 Expansion Unit or I/O Expansion Kit. The Development PAC is compatible with the CP/M disk operating system.



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